ELSEVIER

Volume 508, Numbers 1–2, 8 February 1996

Journal of Organometallic Chemistry

Contents

Regular Papers

Reaction of sodium amalgam with carbenium ions species stabilised by two adjacent organometallic moieties
J.-F. Capon, N. Le Berre-Cosquer and R. Kergoat (Brest, France) 1

Reactions of $(THF)W(CO)_5$ with some diphosphenes carrying bulky aryl and phenoxy groups
D.-L. An, K. Toyota, M. Yasunami and M. Yoshifuji (Sendai, Japan) 7

Zirkoniumorganische Chemie mit anorganischen Donorliganden N,N′-Bis(trimethylsilyl)benzamidinat (Siam) in Verbindungen des Typs $(Siam)_2ZrX_2$ (X = Methyl, Benzyl, Allyl, Chlorid oder Iodid) und $(Siam)_3ZrX$ (X = Chlorid)
D. Walther, R. Fischer, H. Görls, J. Koch and B. Schweder (Jena, Deutschland) 13

Comparison of the oxidation of dinuclear cyclopentadienyl iron diphosphine complexes with the bridging ligands –CN and $-C{\equiv}C(CH_2)_2CN$
G.A. Carriedo (Oviedo, Spain), A. Arancibia, C. Díaz-Valenzuela, N. Yutronic (Santiago, Chile), E. Pérez-Carreño and S. García-Granda (Oviedo, Spain). 23

Synthesis of secondary allenylidene–molybdenum complexes with a ferrocenyl substituent from carbenium ions species stabilized by two organometallic moieties
J.-F. Capon, N. Le Berre-Cosquer, B. Leblanc and R. Kergoat (Brest, France) 31

Protonation of triosmium clusters $Os_3(CO)_9(\mu\text{-}CO)(\mu_3\text{-}2\sigma,\eta^2\text{-}HC{\equiv}CR)$ and $Os_3(\mu\text{-}H)(CO)_9(\mu_3\text{-}\sigma,2\eta^2\text{-}C{\equiv}CR)$ (R = CH_2OH, CMe_2OH, $C(Me){=}CH_2$)
V.V. Krivykh, O.A. Kizas, E.V. Vorontsov, F.M. Dolgushin, A.I. Yanovsky, Yu.T. Struchkov and A.A. Koridze (Moscow, Russia) 39

Reaction of pentaarylantimony with acid halide, aldehyde and ketone
M. Fujiwara, M. Tanaka, A. Baba, H. Ando and Y. Souma (Osaka, Japan) 49

Synthesis of some μ-hydroxo-, phenoxo- and O,O-acetylacetonato-arylgold(III) complexes. Crystal structure of $[Au(C_6H_4NO_2-2)_2(\mu\text{-}OH)]_2 \cdot 2Et_2O$
J. Vicente (Murcia, Spain), M.D. Bermúdez, F.J. Carrión (Cartagena, Spain) and P.G. Jones (Braunschweig, Germany) 53

Catalytic hydroformylation of (1*S*,5*S*)-(−)- and (1*R*,5*R*)-(+)-β-pinene: stereoselective synthesis and spectroscopic characterization of (1*S*,2*R*,5*S*)-, (1*S*,2*S*,5*S*)-, (1*R*,2*R*,5*R*)- and (1*R*,2*S*,5*R*)-10-formylpinane
F. Azzaroni, P. Biscarini, S. Bordoni, G. Longoni and E. Venturini (Bologna, Italy) 59

Synthesis and spectroscopic studies of new hydridoruthenium complexes: catalytic reactions of [RuHCl(bpzm)(cod)] (bpzm = bis(pyrazol-1-yl)methane, cod = cycloocta-1,5-diene)
F.A. Jalón, A. Otero, A. Rodríguez (Ciudad Real, Spain) and M. Pérez-Manrique (Burgos, Spain) 69

Properties and reactivity of the new $[Ir_4(\mu\text{-}CO)_3(CO)_5(\mu\text{-}PR_3)(PR_3)_2]$ clusters, ($PR_3 = PPh_xpyl_{3-x}$, pyl = 2-pyridyl)
K. Wajda-Hermanowicz, F. Pruchnik and M. Zuber (Wrocław, Poland) 75

Molecular oxygen promoted oxidative cleavage of carbon–palladium bonds — catalytic cyclization of allylic 2-alkynoates to α-alkylidene-γ-butyrolactones by a Pd^{II} complex
G. Zhu and X. Lu (Shanghai, China) 83

Preparation of Group 4 metal complexes of a bulky amido-fluorenyl ligand
H.V.R. Dias, Z. Wang (Arlington, TX, USA) and S.G. Bott (Denton, TX, USA) 91

Mechanism of oxidative allyl transfer from allylic ammonium cations to palladium(0) α-diimine complexes
L. Canovese, F. Visentin, P. Uguagliati, F. Di Bianca (Venezia, Italy), A. Fontana (Palermo, Italy) and B. Crociani (Rome, Italy) 101

Insertion reactions involving palladium complexes with nitrogen ligands. I. Reactivity towards carbon monoxide of methylpalladium(II) complexes containing bidentate α-diimine ligands: crystal structures of four methylpalladium (II) and acylpalladium(II) complexes
R.E. Rülke, J.G.P. Delis, A.M. Groot, C.J. Elsevier, P.W.N.M. Van Leeuwen, K. Vrieze, K. Goubitz and H. Schenk (Amsterdam, Netherlands). 109

Synthetic studies of permethylcyclopentadienyl ruthenium(II) complexes involving dppf, (±)-BINAP and (±)-DIOP ligands
M. Sato and M. Asai (Saitama, Japan). 121

^{55}Mn and ^{187}Re NQR spectral studies of modulation effects of mutual motions of electrons and atomic nuclei in cyclopentadienyl tricarbonyl manganese and rhenium complexes
G.K. Semin, S.I. Kuznetsov, E.V. Bryukhova and T.L. Khotsyanova (Moscow, Russia) 129

The reactions of tricobalt alkylidyne complexes $[Co_3(\mu_3\text{-}CR)(CO)_9]$ (R = Me, CO_2Me) with the vinyl phosphine ligands $PPh_2CH{=}CH_2$ and *cis*-$Ph_2PCH{=}CHPPh_2$; crystal structure of $[Co_3(\mu_3\text{-}CCO_2Me)(\mu\text{-}Ph_2PCH{=}CHPPh_2)(CO)_7]$
G.A. Acum, M.J. Mays, P.R. Raithby and G.A. Solan (Cambridge, UK) 137

Katalytische Hydrierung von Halogenmonosilanen mit Tributylzinnhydrid
U. Pätzold, G. Roewer und U. Herzog (Freiberg/Sa., Deutschland) 147

General valence force fields of the free and the coordinated cyclopentadienyl anion
T. Polzer and W. Kiefer (Würzburg, Germany) 153

Preparation and some properties of Pt(II) ruthenocenylacetylide complexes
M. Sato and E. Mogi (Saitama, Japan) 159

Ring slippage in indenyl derivatives of molybdenum and tungsten
J.R. Ascenso (Lisboa, Portugal), I.S. Gonçalves (Oeiras, Portugal), E. Herdtweck (Garching, Germany) and C.C. Romão (Oeiras, Portugal) . . . 169

Elsevier Science S.A.

Diphenylphosphine derivatives of $Co(NO)(CO)_3$, $Fe(NO)_2(CO)_2$ and $Mn(NO)(CO)_4$
J.T. Lin (Taipei, Taiwan), S.Y. Wang (Chung Hua, Taiwan), Y.C. Chou, M.L. Gong, Y.-M. Shiow (Taipei, Taiwan), H.-M. Gau (Taichung, Taiwan) and Y.S. Wen (Taipei, Taiwan) 183
Isomeric diphosphines of a heteroannularly bridged ferrocene: preparation, chromatographic separation and structure elucidation
G. Kutschera (Wien, Austria), C. Kratky (Graz, Austria), W. Weissensteiner and M. Widhalm (Wien, Austria) 195
Synthesis and molecular structure of enantiopure 1-(diphenylphosphino)-2,1′-[(1-*N*,*N*-dimethylamino)-1,3-propanediyl]-ferrocene and its palladium dichloride complex, a new ligand for enantioselective catalysts
A. Mernyi (Wien, Austria), C. Kratky (Graz, Austria), W. Weissensteiner and M. Widhalm (Wien, Austria) 209
Optically active transition-metal complexes. III. Synthesis of optically active (η^4-aminodiolefin)tricarbonyl iron complexes. Kinetic resolution of a chiral amine by means of an optically active dienyl iron cation
M. Käser and A. Salzer (Aachen, Germany) 219
Syntheses of tungsten-substituted oligosilanes
A. Zechmann and E. Hengge (Graz, Austria) 227
Multiply substituted cyclopentadienyl metal complexes: I. Solid-state and solution conformational studies on (η^5-C_5Me_4R)Fe(CO)(L)I (R = H, ^{t}Bu)
K.E. Du Plooy, J. Du Toit, D.C. Levendis and N.J. Coville (Johannesburg, South Africa) 231
Reactions of trimethylaluminium with aliphatic diols
W. Ziemkowska and S. Pasynkiewicz (Warsaw, Poland) 243
Synthesis, properties and crystal structure of bis(cyclopentadienyl)aluminium complex $[\eta^1\text{-}(C_5H_5)_2AlO\text{–}^iPr]_2$
A. Kunicki, R. Sadowski and J. Zachara (Warsaw, Poland) 249
Palladium-catalyzed reaction of 1-aza-5-germa-5-organobicyclo[3.3.3]undecane with aryl bromide
M. Kosugi, T. Tanji, Y. Tanaka, A. Yoshida, K. Fugami (Gunma, Japan), M. Kameyama (Tochigi, Japan) and T. Migita (Shizuoka, Japan) . . . 255
Electron density distribution in the vanadocene crystal on the basis of X-ray diffraction data at 108 K
M.Yu. Antipin, K.A. Lyssenko (Moscow, Russia) and R. Boese (Essen, Germany) 259

Preliminary Communications
Hydride abstraction from (η^2-acetaldehyde)zirconocene dimer using $B(C_6F_5)_3$
D. Röttger, S. Schmuck and G. Erker (Münster, Germany) 263
Vergleichende Dimerisierung der Enantiomere von Oct-1-in-3-ol mit chiralen Rhodium-Phosphan-Komplexen
H. Singer und M. Steigerwald (Mainz, Deutschland) 267
Crown compounds for anions. A polymeric complex of cyclic trimeric perfluoro-*o*-phenylenemercury with thiocyanate anion containing an infinite helical chain of alternating molecules of mercury-containing macrocycle and SCN^- ions
I.A. Tikhonova, F.M. Dolgushin, A.I. Yanovsky, Yu.T. Struchkov, A.N. Gavrilova, L.N. Saitkulova, E.S. Shubina, L.M. Epstein, G.G. Furin and V.B. Shur (Moscow, Russia) 271
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente. XXXVIII. Halbsandwich-Komplexe der Stöchiometrien (COT)Ln($HBpz_3$) und (COT)Ln[$HB(3,5\text{-}Me_2pz)_3$]-ideale Systeme für die experimentelle Bestimmung der Kristallfeld-Aufspaltungseffekte des Cyclooctatetraenyl-Liganden
H.-D. Amberger (Hamburg, Deutschland) und F.T. Edelmann (Magdeburg, Deutschland) 275

Book Review 281

Author Index 283

Subject Index 285

The publisher encourages the submission of articles in electronic form thus saving time and avoiding rekeying errors. A leaflet describing our requirements is available from the publisher upon request.